

Operating instructions SENSOR TESTPAK Test device for DC sensors

E18401

CE



UK

# 1 Symbols used

- Instruction
- > Reaction, result
- $\rightarrow$  Cross-reference



Important note:

Non-compliance can result in malfunctions or interference.

# 2 Functions and features

The SENSOR TESTPAK is a test device for most 2-, 3- or 4-wire DC sensors. The function can be tested without removing the sensor. By means of the setting function sensors with a setting input can be set.



The SENSOR TESTPAK tests no AC sensors.

# **3 Electrical connection**

- ▶ Insert 6 AA batteries ( $\rightarrow$  8.1).
- ► Disconnect the sensor to be tested.
- Connect the sensor to the SENSOR TESTPAK ( $\rightarrow$  3.1).
- > LED lights green = SENSOR TESTPAK is ready for operation.
- > LED lights red = low battery status ( $\rightarrow$  8.1).

## 3.1 Wiring diagram

	+	<u> </u>	_	Т	
4-wire PNP (setting)	brown (1)	black (4)	blue (3)	white (2)	1 _ 2
3-wire PNP/NPN (NO)	brown (1)	black (4)	blue (3)		
3-wire PNP/NPN (NC)	brown (1)	white (2)	blue (3)		4 3
2-wire DC	brown (1)	black (4)			



European colour codes are indicated in the wiring diagram. They can be different for some sensors. In case of doubt follow the wiring instructions of the manufacturer.

## 4 Operating and display elements



1	terminal +
2	terminal
3	terminal -
4	terminal T
5	button

LED		Display	Status	Description		
Ķ-	green	power	sensor connected	device ready for operation		
4	red	battery	low battery status	replace batteries		
PNP	yellow	output type	target present	NO		
NPN			target not present	NC		
Т	green	setting function	setting button pressed	setting output active		

# 5 Operation

Test operation with an inductive sensor as an example:

- Move a suitable metallic target in front of the sensing face of the sensor. Ideally, the target to be detected in the application.
- > If the sensor is damped so that the output switches, the SENSOR TESTPAK indicates this acoustically and visually ( $\rightarrow$  4).
- → You can find more details and correction factors in the data sheet of the sensor manufacturer.

The SENSOR TESTPAK switches off automatically as soon as the voltage supply to the sensor is interrupted.

#### 5.1 Setting function

The button is electrically connected to the terminal T of the SENSOR TESTPAK. By pressing the button the positive battery voltage is applied to terminal T. Sensors with a setting input can be set in this way.

### 6 Scale drawing



## 7 Technical data

Operating voltage	9 V DC
Output voltage	24 V DC
Current rating	100 mA
Batteries	6 x 1.5 V type "AA", not supplied with the device
Display	LEDs green, yellow, red
Connection	4 terminals, positive, negative and 2 outputs switched

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### 8 Maintenance, repair and disposal

In case of correct use no maintenance and repair measures are necessary.

Only the manufacturer is allowed to repair the device.

After use dispose of the device in an environmentally friendly way in accordance with the applicable national regulations.

#### 8.1 Battery replacement

- ► Disconnect the sensor from the SENSOR TESTPAK.
- Remove the cover of the battery compartment on the bottom side of the SENSOR TESTPAK from the housing in direction of the marking.
- ► Remove the battery carrier carefully (risk of wire break).
- ▶ Remove all empty batteries and replace them by new ones.
  - Note the indicated polarity when inserting the batteries.
  - Do not use rechargeable batteries.
  - After use dispose of the batteries in an environmentally friendly way.
- Insert the battery carrier into the SENSOR TESTPAK and slide the cover of the battery compartment over the housing.